BRUHAT BANGALORE MAHANAGARA PALIKE

Name of work: Improvements to roads of shabarinagara & surrounding areas in ward no.07 Byataranapura.

[Pick the date]

Estimate cost: 30.00 lakhs

Ward 7 byatarayanapura

Name of Work:- Improvements to roads of shabarinagara & surrounding areas in ward no.07 Byataranapura.

Estimated Cost:- 25.00 Lakhs

S.N	DESCRIPTION OF WORK	Unit	N	L	B	D	QTY	RATE	AMOUNT
1	2	3	4	5	6	7	8	9	10
1	KSRRB M200-12.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. B.Cement Concrete Grade M-15 & M-20. Pg No.139, Item No.18.18								
	Amruthahalli circle to		1	90.00	0.15	0.20	2.70		
					TOTAL		**2.70**	590.42	**1595.00**
	Basic Rate:	sqm	**557.00**						
	Area Weightage @ 6%		33.42						
	Total		**590.42**						
2	Removing and refixing stone slabs of drains and pointing in CM(1:3), Pg No.27,								
	Covering slab								
	L & T Main		1	454.00	0.90		408.60		
					TOTAL		408.60		
	Deduct 32% damage slab						130.75		
					TOTAL		**277.85**	111.30	**30925.00**
	Basic Rate:	sqm	**105.00**						
	Area Weightage @ 6%		6.30						
	Total		**111.30**						
3	KSRRB 300-1. Earthwork excavation by manual means in rodinary soil involving an average horizontal throw upto 2 m and an average lift upto 1.5m, excavated surafce levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications.. Pg No.143.Item No.19.1)								
	1st Cross		2	85.00	0.95	0.90	145.35		
	Desilting of								
	L & T Main		1	454.00	0.60	0.60	163.44		
	Amruthahalli circle to		1	90.00	0.60	0.75	40.50		
	Culverts		10	6.00	1.50	1.20	108.00		
					TOTAL		**457.29**	137.80	**63015.00**
	Basic Rate:	cum	130.00						
	Area Weightage @ 6%		7.80						
	Total		137.80						

4	KSRB 4-1.2 : Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2 **(Pg.No.13, It.4.2)**								
	RCC DRAIN-BOTTOM								
	1st Cross		2.00	85.00	0.95	0.15	24.23		
	Culverts		10.00	6.00	1.50	0.15	13.50		
					TOTAL		**37.73**	5505.64	**207701.00**
	Basic Rate:	cum	5194.00						
	Area Weightage @		311.64						
	Total		5505.64						
5	KSRB4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs, with 20 mm and down size graded granite matel coarse aggregates @ 0.878 cum and fine aggragtes @ 0.53cum, machine mixed concrete laid in layers not eceeding 15 cms, thick well compacted, in foundation, plinth and cills including cost of all materials, labour HOM machinery curing complate as per specifications. (Page No. 12. Item No. 4.6)								
	Bottom								
	1st Cross		2.00	85.00	0.75	0.15	19.13		
	Side Wall								
	1st Cross	2x2	4.00	85.00	0.15	0.60	30.60		
	Culverts								
	Bottom		10.00	6.00	0.60	0.15	5.40		
	Coping	10x2	20.00	6.00	0.45	0.10	5.40		
					TOTAL		**60.53**	5747.32	**347856.54**
	Basic Rate:	cum	5422.00						
	Area Weightage @ 6%		325.32						
	Total		**5747.32**						
6	KSRB 5.3-1:Providing and constructing granite /trap/basalt size stone masonry in foundation with cement mortar 1:6, stone hammered dressed in courses not less than 20cms hign, bond stones at two m apart in each course including cost of materials, labour, curing etc., complete as per specifications.(P-25. Item No. 5.6)								
	Culvert		20	6.00	0.45	0.75	40.50		
					TOTAL		**40.50**	4871.76	197306.28
	Basic Rate:	cum	4596.00						
	Area Weightage @ 6%		275.76						
	Total		**4871.76**						

7	KSRB 15.1.4: Providing ruled pointing to coursed stone masonry with cement mortar 1:4, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications cement mortar 1:4. Page No. 115 / Item No. 15.4 / PWD SR 2018-19								
	Culvert		20	6.00		0.75	90.00		
						TOTAL	**90.00**	148.40	13356.00
	Basic Rate:	sqm	140.00						
	Area Weightage @ 6%		8.40						
	Total		**148.40**						
8	Providing **TMT Steel Reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.(Page No.18, Item No.4.46.2)								
	Reinforcement for side wall						60.53		
			At 55 Kg % per cum				**3.33**	72326.98	**240768.00**
	Basic Rate:	Tonn	68233.00						
	Area Weightage @		4093.98						
	Total		72326.98						
9	Providing and removing Centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / **rectangular slabs /side walls** polygon in plan including cost of materials, labour complete as per specification and directions of the Engineer in charge.(Page No.16, Item								
	SIDE WALL								
	1st Cross	2x4	8	85.00		0.60	408.00		
							408.00	483.36	**197211.00**
	Basic Rate:	Sqm	456.00						
	Area Weightage @		27.36						
	Total		483.36						
10	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete10cms thick.(Pg No.27, Item								
	For new drains								
	1st Cross		2	85.00	0.75		127.50		
						TOTAL	**127.50**	966.72	**123257.00**
	Basic Rate:	**sqm**	**912.00**						
	Area Weightage @		**54.72**						
	Total		**966.72**						

11	KSRB 5-8.1: Providing one line dressing to granite stone slabs/granite stone masonry as per specifications.KBS 5.1.13								
	1st Cross		2	85.00	0.75		127.50		
					TOTAL		**127.50**	950.82	**121230.00**
	Basic Rate:	**sqm**	**897.00**						
	Area		**53.82**						
	Total		**950.82**						
12	Providing and fixing 10cms thick pre cast RCC covering slab using reinforced cement concrete M20 mix with stone aggregate 20mm and down size including centring shuttering reinforcement and bar bending machine mixed concrette laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing complete as per specfications (Data Rate Approved)								
	DETA RATE	**Sqm**							
	Damage Covering Slab						130.75		
					TOTAL		**130.75**	2337.00	**305567.42**
13	Providing and fixing 20 cm thick pre cast RCC covering slab using reinforced cement concrete M 20 mix with stone aggregate 20 mm and down size including centring shuttering reinforcement and bar bending machine mixed concrete laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing comlete as per specification (Data Rate)								
	DETA RATE	**Sqm**							
	Covering Slab								
	culverts		100	1.50	0.60		90.00		
	Amruthahalli circle to		61	0.60	1.50		54.90		
							144.90	5418.00	785068.20

14	KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (Page 136, item								
	Basic Rate	cum	**57.00**				457.29	94.34	**43141.00**
	Rs. 2.50 Tonne								
	Average Weight of earth 1.28 Tonne/Km.								
	For 10 Km								
	Rs.2.50X1.28To		**32.00**						
	Total		**89.00**						
	Add Area Weightage6%		**5.34**						
			94.34						
15						**Sub Total**			**2677997.45**
16				**Add 12% GST charges**					**321359.69**
17				**Miscelleneous charges**					**642.86**
18						**Total**			**3000000.00**

; **1)This is certified that the work spot comes under BBMP limits only.**
2) The work spot is inspected by me
3) The items Provided in the Estimate are quite Essential
4)The rates are as per CSR of 2018-19 year of PWD Bangalore Circle.

Asst.Engineer
Ward no.7

Asst.Exe.Engineer
Kodigehalli Sub-division
B.B.M.P.

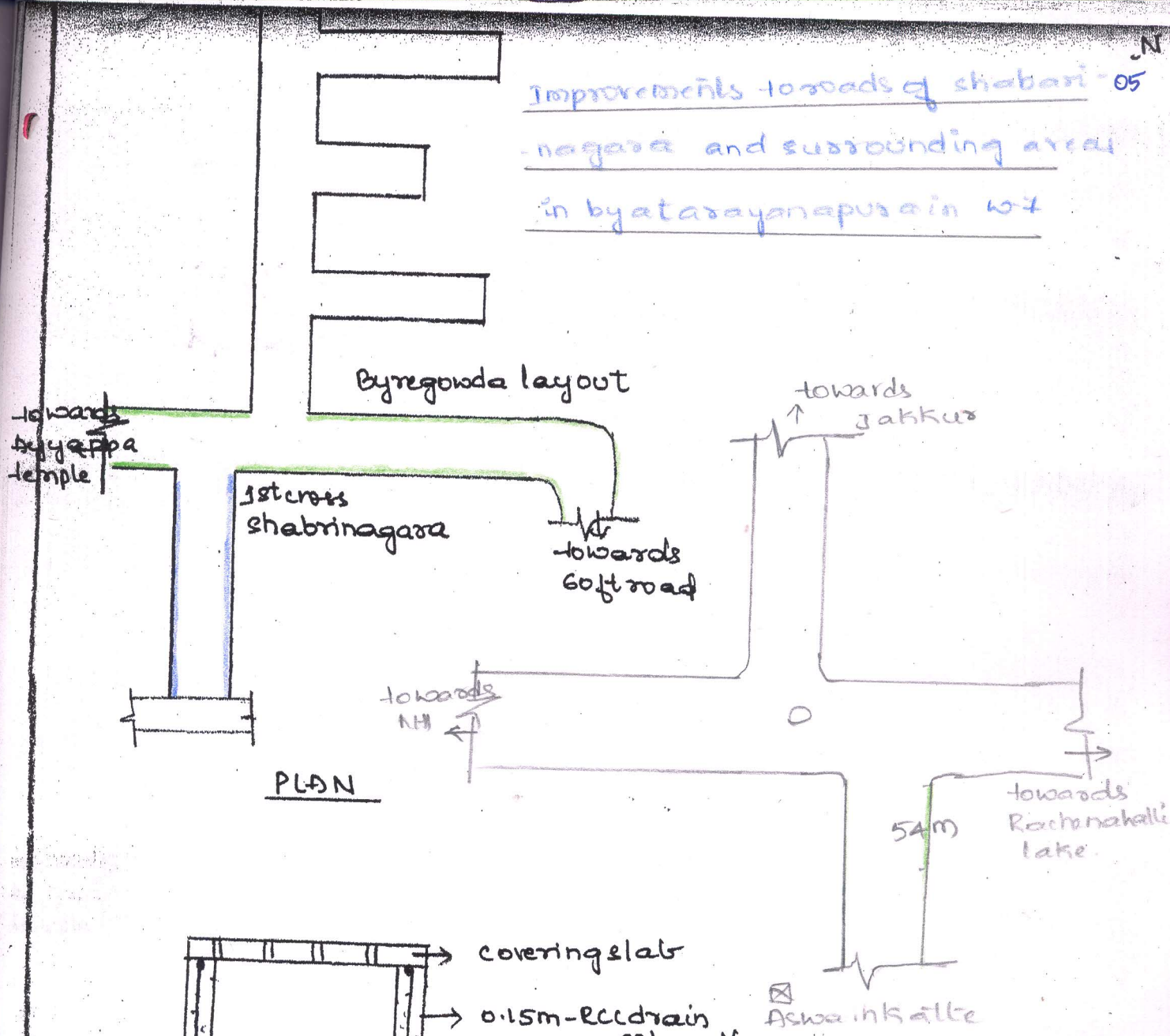
Executive Engineer
Byatrayanapura Division
B.B.M.P.

18/03

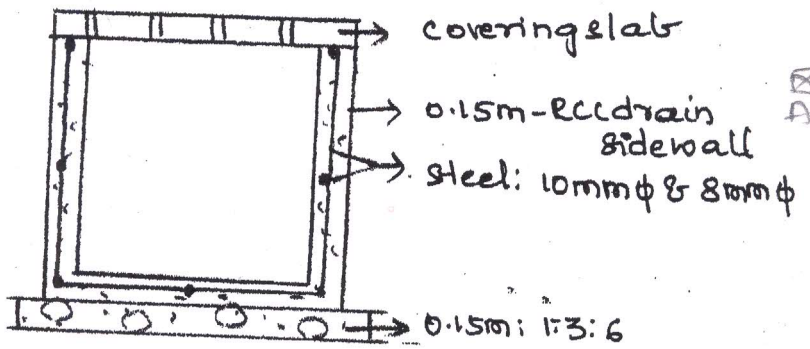
Administrative Approval
Accorded For RS 30 w Laeche only
Head of A/C P.3276
CER NO :107 Dt:20.03.2020
TA CE (YNK)

Technical Sanction
Accorded For RS 30 w Laeche only
Head of A/C P 3276
CER NO :305 Dt:20.03.2020
TA CE (YNK)

Improvements to roads of shabari nagara and surrounding area in byatarayanapura ward



PLAN



CROSS SECTION OF RCC DRAIN

	Index
	-RCC drain
	-Improvements to drain

Asst. Engg
AE (WF)